

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN030722\  
 Data File : VN071181.D  
 Acq On : 07 Mar 2022 17:18  
 Operator : JC\MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICVVN030722

Quant Time: Mar 08 05:05:12 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030722W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 08 04:45:05 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 03/08/2022  
 Supervised By : Mahesh Dadoda 03/08/2022

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.086          | 168  | 683005     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.969          | 114  | 1097742    | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.739         | 117  | 1031671    | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.668         | 152  | 419021     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.434          | 65   | 449246     | 47.992   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = | 95.980%  |        |          |
| 35) Dibromofluoromethane     | 8.022          | 113  | 340331     | 49.130   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = | 98.260%  |        |          |
| 50) Toluene-d8               | 10.439         | 98   | 1416678    | 50.794   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = | 101.580% |        |          |
| 62) 4-Bromofluorobenzene     | 12.727         | 95   | 494446     | 52.353   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = | 104.700% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.069          | 85   | 349275     | 46.660   | ug/l   | 99       |
| 3) Chloromethane             | 2.299          | 50   | 476698     | 47.433   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.440          | 62   | 423173     | 46.129   | ug/l   | 98       |
| 5) Bromomethane              | 2.834          | 94   | 227770     | 59.448   | ug/l   | 97       |
| 6) Chloroethane              | 3.004          | 64   | 257416     | 46.335   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.369          | 101  | 556206     | 46.065   | ug/l   | 97       |
| 8) Diethyl Ether             | 3.822          | 74   | 243466     | 47.120   | ug/l   | 93       |
| 9) 1,1,2-Trichlorotrifluo... | 4.210          | 101  | 325723     | 46.600   | ug/l   | 95       |
| 10) Methyl Iodide            | 4.422          | 142  | 454530     | 46.040   | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.363          | 59   | 441481     | 240.078  | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.181          | 96   | 317270     | 46.335   | ug/l   | 94       |
| 13) Acrolein                 | 4.040          | 56   | 415908     | 213.683  | ug/l   | 99       |
| 14) Allyl chloride           | 4.846          | 41   | 698873     | 46.927   | ug/l   | 86       |
| 15) Acrylonitrile            | 5.551          | 53   | 1261021    | 230.945  | ug/l   | 98       |
| 16) Acetone                  | 4.287          | 43   | 1269374    | 278.696  | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.534          | 76   | 899306     | 46.133   | ug/l   | 100      |
| 18) Methyl Acetate           | 4.857          | 43   | 562961     | 46.060   | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.616          | 73   | 1222396    | 47.548   | ug/l   | 96       |
| 20) Methylene Chloride       | 5.098          | 84   | 391511     | 47.054   | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 5.598          | 96   | 345027     | 46.067   | ug/l   | 88       |
| 22) Diisopropyl ether        | 6.492          | 45   | 1386632    | 47.260   | ug/l   | 93       |
| 23) Vinyl Acetate            | 6.434          | 43   | 6074097    | 244.539  | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.387          | 63   | 721438     | 46.533   | ug/l   | 100      |
| 25) 2-Butanone               | 7.334          | 43   | 1804184    | 245.900  | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 7.322          | 77   | 593137     | 49.590   | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.322          | 96   | 411721     | 46.317   | ug/l   | 89       |
| 28) Bromochloromethane       | 7.657          | 49   | 316559     | 45.851   | ug/l   | 83       |
| 29) Tetrahydrofuran          | 7.681          | 42   | 1174179    | 231.003  | ug/l   | 92       |
| 30) Chloroform               | 7.816          | 83   | 679401     | 45.946   | ug/l   | 100      |
| 31) Cyclohexane              | 8.092          | 56   | 683482     | 45.723   | ug/l   | 92       |
| 32) 1,1,1-Trichloroethane    | 8.010          | 97   | 592107     | 47.008   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.222          | 75   | 526729     | 47.458   | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.410          | 43   | 709108     | 46.424   | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.204          | 117  | 510735     | 47.575   | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.457          | 83   | 672458     | 51.503   | ug/l   | 95       |
| 40) Benzene                  | 8.457          | 78   | 1597244    | 47.765   | ug/l   | 99       |

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 Quant Title : SW846 8260  
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| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.634  | 41   | 353766   | 47.326   | ug/l # | 87       |
| 42) 1,2-Dichloroethane        | 8.528  | 62   | 564242   | 48.489   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.557  | 43   | 1057854  | 46.312   | ug/l   | 98       |
| 44) Trichloroethene           | 9.216  | 130  | 382093   | 48.427   | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.486  | 63   | 424762   | 47.319   | ug/l   | 99       |
| 46) Dibromomethane            | 9.575  | 93   | 262385   | 47.490   | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.763  | 83   | 540615   | 48.418   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.557  | 41   | 522038   | 49.317   | ug/l # | 82       |
| 49) 1,4-Dioxane               | 9.569  | 88   | 184528   | 1002.889 | ug/l   | 88       |
| 51) 4-Methyl-2-Pentanone      | 10.328 | 43   | 3416981  | 241.043  | ug/l   | 99       |
| 52) Toluene                   | 10.504 | 92   | 1015007  | 49.293   | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 10.716 | 75   | 623983   | 50.696   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.186 | 75   | 671181   | 49.907   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.898 | 97   | 389970   | 47.262   | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.757 | 69   | 674371   | 50.047   | ug/l   | 90       |
| 57) 1,3-Dichloropropane       | 11.045 | 76   | 707905   | 47.797   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.039 | 63   | 572133   | 207.435  | ug/l   | 96       |
| 59) 2-Hexanone                | 11.080 | 43   | 2488243  | 257.255  | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.233 | 129  | 405555   | 49.467   | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.345 | 107  | 402806   | 47.765   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.975 | 164  | 343559   | 47.748   | ug/l   | 98       |
| 65) Chlorobenzene             | 11.769 | 112  | 1051289  | 47.450   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.839 | 131  | 385019   | 47.393   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.845 | 91   | 1940011  | 49.523   | ug/l   | 96       |
| 68) m/p-Xylenes               | 11.951 | 106  | 1452850  | 101.378  | ug/l   | 99       |
| 69) o-Xylene                  | 12.280 | 106  | 717307   | 49.933   | ug/l   | 97       |
| 70) Styrene                   | 12.292 | 104  | 1139062  | 51.225   | ug/l   | 97       |
| 71) Bromoform                 | 12.457 | 173  | 307355   | 49.818   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.574 | 105  | 1860731  | 46.066   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.386 | 43   | 717196   | 47.222   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.821 | 83   | 599402   | 49.933   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.880 | 75   | 492311m  | 48.385   | ug/l   |          |
| 77) Bromobenzene              | 12.857 | 156  | 417684   | 44.345   | ug/l   | 80       |
| 78) n-propylbenzene           | 12.916 | 91   | 2084502  | 48.092   | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 13.004 | 91   | 1263619  | 45.415   | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene    | 13.057 | 105  | 1494460  | 47.555   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.621 | 75   | 184636   | 47.633   | ug/l   | 91       |
| 82) 4-Chlorotoluene           | 13.104 | 91   | 1180991  | 47.652   | ug/l   | 95       |
| 83) tert-Butylbenzene         | 13.321 | 119  | 1326257  | 47.290   | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.363 | 105  | 1467330  | 48.747   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.498 | 105  | 1817648  | 48.761   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.610 | 119  | 1473524  | 50.264   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.616 | 146  | 702419   | 45.897   | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.692 | 146  | 680816   | 45.509   | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.939 | 91   | 1149040  | 50.113   | ug/l   | 96       |
| 90) Hexachloroethane          | 14.210 | 117  | 276507   | 47.430   | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene       | 13.986 | 146  | 667863   | 45.391   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.598 | 75   | 103578   | 44.072   | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 15.262 | 180  | 332722   | 48.544   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.368 | 225  | 200608   | 48.567   | ug/l   | 98       |
| 95) Naphthalene               | 15.504 | 128  | 877539   | 46.121   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.698 | 180  | 311712   | 47.526   | ug/l   | 98       |

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Manual Integrations  
APPROVED

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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